SONY

3-753-030-21 (2)

Compact Disc Player

Operating Instructions

CDP-C315M
CDP-C312M

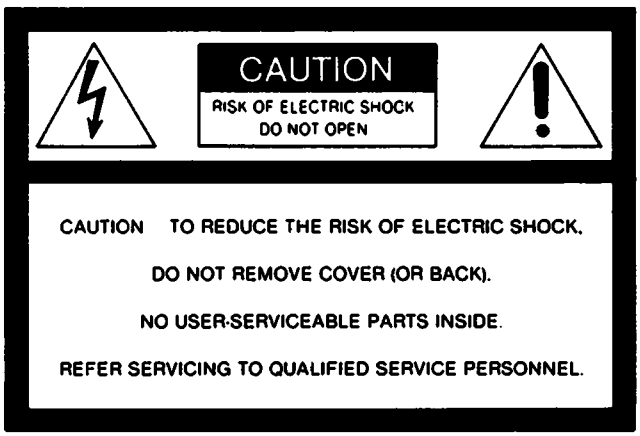
Owner's Record

The model and serial numbers are located at the rear. Record these numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

Warning

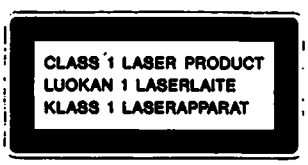
To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For the customers in Australia



This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

Information

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to tray to correct the interference by one or more of the following measures:

Reorient the receiving antenna
Relocate the equipment with respect to the receiver
Move the equipment away from the receiver
Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:
"How to Identify and Resolve Radio-TV Interference Problems".
This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

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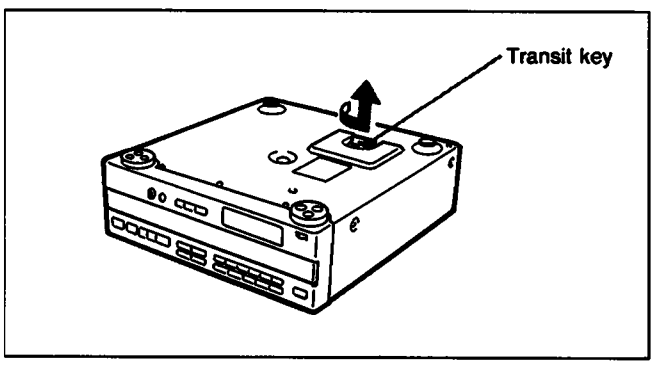
Note on the Transit Key

The transit key on the bottom exterior of the unit protects the optical system against shock during transportation. Before operating the CD player, be sure to remove the key by following the instructions on the label, and store it in a safe place.

When transporting the unit, replace the key in its original hole and lock it in place.



Introduction

This unit is equipped with 5 disc trays which allow you to choose from a large number and wide variety of selections. Any disc at any time can be played using the DISC 1 to 5 buttons.

Enjoy listening in various playing modes

You can select the playing modes among the following:

Continuous play (page 8)	– The entire disc(s) is played once.
Shuffle play (page 11)	– Selections are played in a random order.
Program play (page 12)	– Selections are played in your desired order.
Repeat play (page 16)	– Selections or portions are played repeatedly.

Editing your own tapes

- You can fade the play in or out when making your own tape recording. – Fade in/Fade out (page 17)
- The player can program selections automatically to fit in a desired duration. – Time edit (page 14)
- You can stop the play, fading out at the time desired. – Time fade (page 17)
- The loudest portion of the disc will be determined and played repeatedly. – Peak search (page 18)

You can play a beginning of each selection – Music scan

You can check the selections by scanning the beginning of each selection in the disc. You can use this function in any play mode. (page 16)

Easy-to-see display

The selection number, the playing time, the remaining time are displayed by pressing the TIME button. And also playing modes like repeat, shuffle, program are displayed in the display window.

Differences by Model

This instruction manual covers CDP-C315M and CDP-C312M. Their performance and operation are identical except for the following:

- The CDP-C312M is not supplied with a remote commander. It does not have those functions activated only by remote commander, which are indicated with [R] mark in this instruction manual.
- The CDP-C312M does not have a HEADPHONES (headphones) jack and a PHONE LEVEL control.

The illustrations used in this manual are of the CDP-C315M.

This indicates a function operated only from the remote commander.

This indicates a function operated only on the main unit.

Precautions

On safety

- Check the unit's operating voltage before operation. It must be identical with that of your local power supply.
- Should any liquid or solid object fall into the cabinet. Unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it will not be used for a long time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.
- As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

On operation

When the unit is not used, turn the power off, to conserve energy and to extend the useful life of your unit.

For detailed safety precautions, see the leaflet "IMPORTANT SAFEGUARDS".

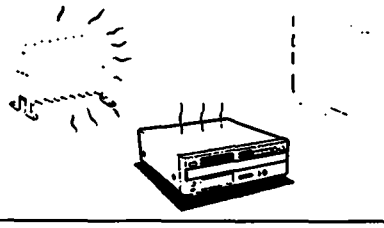
If you have any questions or problems concerning your unit, please contact you nearest Sony dealer.

Installation

Placing Your Unit

- Place the unit in a location with adequate air circulation to prevent internal heat buildup in the unit.
- Do not place the unit on a soft surface, such as a rug that would block the ventilation holes on the bottom.
- Do not install the unit.
  - near heat sources such as radiators or air ducts.
  - in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

Not this way.



On moisture condensation

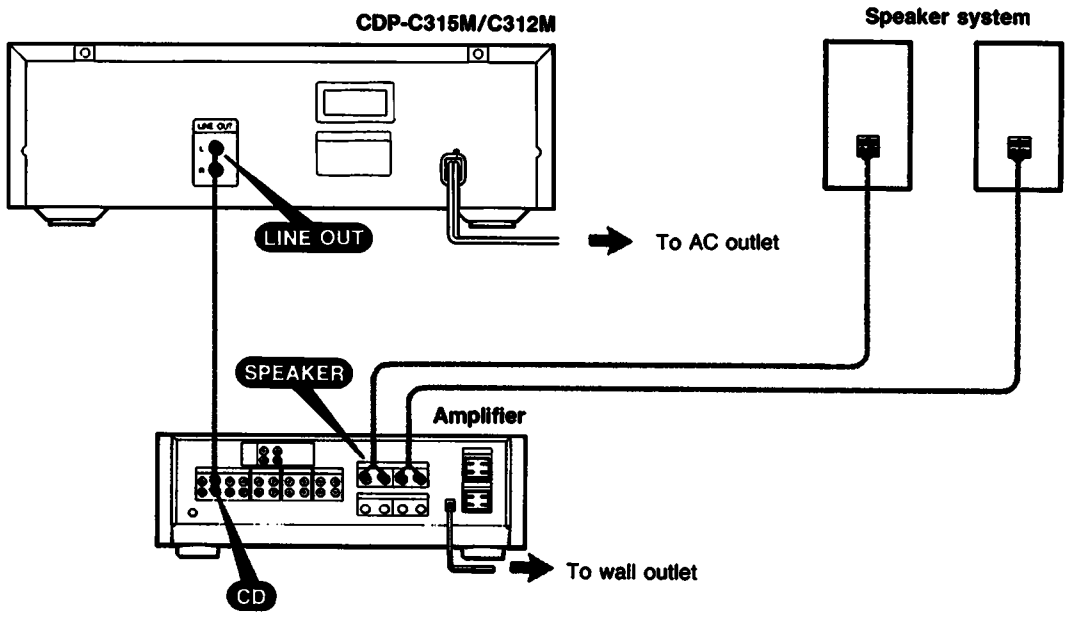
If the unit is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the unit. Should this occur, the player will not operate. In this case, remove the disc and leave the player turned on for about an hour until the moisture evaporates.

Connections

For Correct Connections

- Turn off the power of each unit before making connections.
- Connect the AC power cord last.
- Be sure to insert the plugs firmly into the jacks. Loose connection may cause hum and noise.
- Leave a little slack in the connecting cord to allow for inadvertent shock and vibration.
- Cord plugs and jacks are color coded: Red plugs and jacks are for the right channel (R) and white ones for the left channel (L).

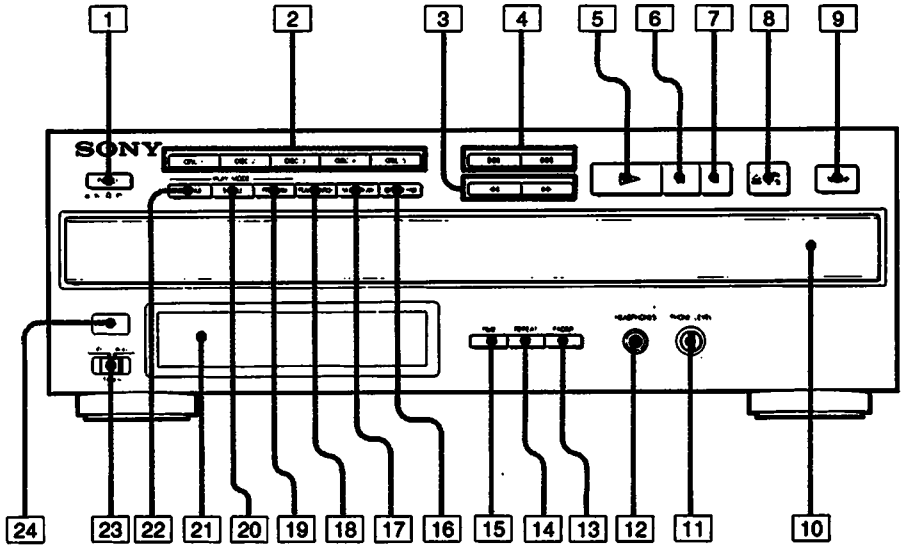
To Connect to an Amplifier



Location of Controls

Front Panel

CDP-C315M/C312M



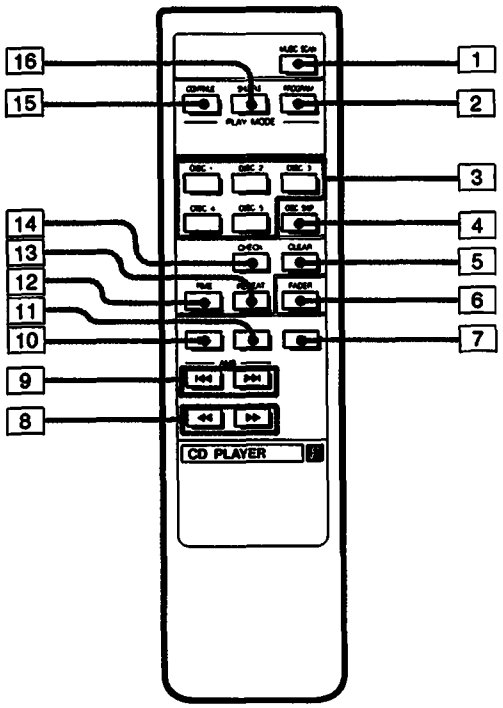
Refer to the pages indicated in ● for details.

1 POWER switch ●
2 Disc 1-5 buttons ●
3 ◀◀/▶▶ (manual search) buttons ●
4 I◀◀/▶▶I (AMS*) buttons ●
5 ▶ (play) button ●
6 ❚❚ (pause) button ●
7 ■ (stop) button ●
8 ⏏ OPEN/CLOSE button ●
9 DISC SKIP button ●
10 Disc tray ●
11 PHONE LEVEL control (CDP-C315M only) ●
12 HEADPHONES jack (CDP-C315M only)
13 FADER button ●
14 REPEAT button ●
15 TIME button ●
16 EDIT/TIME FADE button ●
17 MUSIC SCAN button ●
18 PEAK SEARCH button ●
19 PROGRAM button ●
20 SHUFFLE button ●
21 Display window
22 CONTINUE button ●
23 TIMER switch ●
24 Remote sensor

* AMS is the abbreviation of Automatic Music Sensor.

Remote Commander

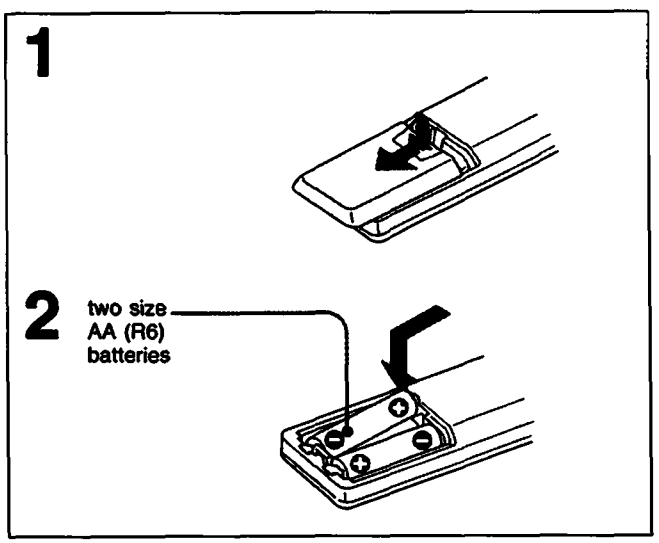
(CDP-C315M only)



Refer to the pages indicated in ● for details.

1 MUSIC SCAN button ⓰
2 PROGRAM button ⓯
3 DISC 1-5 buttons ⓴
4 DISC SKIP button ⓴
5 CLEAR (program clear) button ⓭
6 FADER button ⓫
7 ■ (stop) button ⓼
8 ◀◀/▶▶ (manual search) buttons ⓾
9 ⏮/⏭ (AMS) buttons ⓾
10 ▶ (play) button ⓼
11 ❚❚ (pause) button ⓼
12 TIME button ⓽
13 REPEAT button ⓬
14 CHECK (program check) button ⓮
15 CONTINUE button ⓴
16 SHUFFLE button ⓫

Installing Batteries in the Remote Commander



On battery life

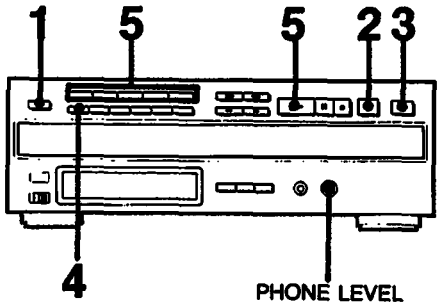
- About half a year of normal operation can be expected when using the Sony SUM-3(NS) batteries.
- When the batteries are run down, the remote commander will not operate the unit. In this case, replace both batteries with new ones.

Notes on the remote commander and remote control operation

- Keep the commander away from extremely hot or humid places.
- Avoid dropping any foreign objects into the commander casing, particularly when replacing the batteries.
- Avoid exposing the remote sensor to direct sunlight or lighting apparatus. Such exposure can cause a malfunction.
- To avoid damage caused by battery leakage and corrosion, remove the batteries when the commander will not be used for a long time.

Playing a Disc – Continuous Play

Before playing a disc, turn on the amplifier and set the input selector to the CD player position.



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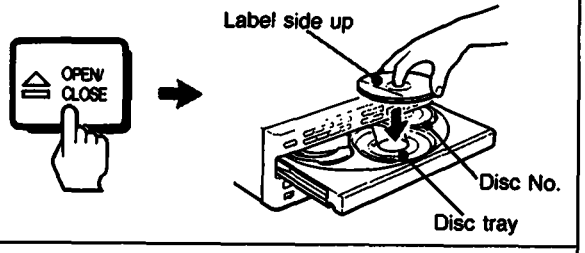
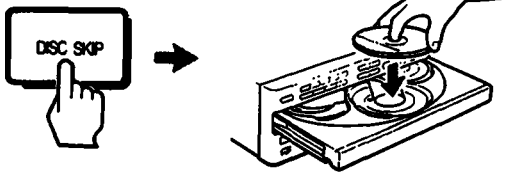
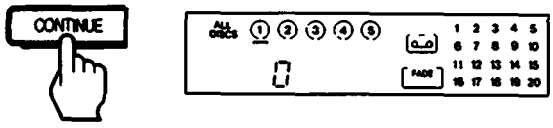


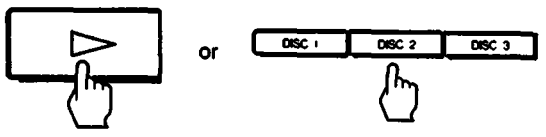
3 To play more than one disc, place discs on the tray repeatedly.



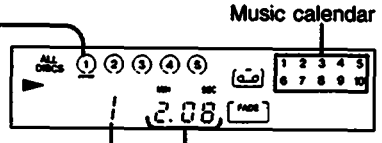
4 Choose whether to play one disc (1 DISC) or all discs (ALL DISCS).



5



When all selections of a disc are played, the circle on the tray number goes off.



To stop play

To stop for a moment during play, press ❚❚.
Press ► or ❚❚ to resume paly.
To stop play, press ■.
To stop play and open the tray, press ⏏.

To make the CD player stand by at the beginning of the first selection.

Press ❚❚ during the stop mode. The unit enters the pause mode at the beginning of the first selection. Press ► or ❚❚ to start play. You cannot use this function in program mode.

Caution on adjusting volume

Do not turn up the volume while listening to a portion with very low level inputs or no audio signals. If you do the speakers may be damaged when a peak level portion is played.

To listen with the headphones (CDP-C315M only)

Connect the headphones and control the volume with the PHONE LEVEL control.

Note on the TIMER switch

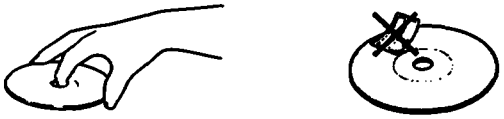
Leave the TIMER switch off when not setting timer activated play. (page 18)

Note

The tray number of an empty tray will be displayed until the empty tray number is set to play. Once it is recognized as empty, it will disappear.

Notes on handling discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.



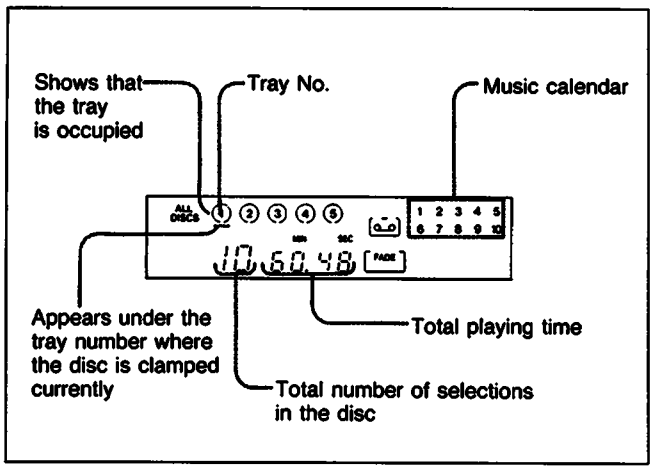
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as temperature may rise considerably.
- After playing, store the disc in its case.

To play an 8 cm (3-inch) CD

Place it on the inner circle of the tray. If the disc is provided with an adaptor, first remove it. Do not put a normal CD (12 cm/5-inch) on top of an 8 cm CD.

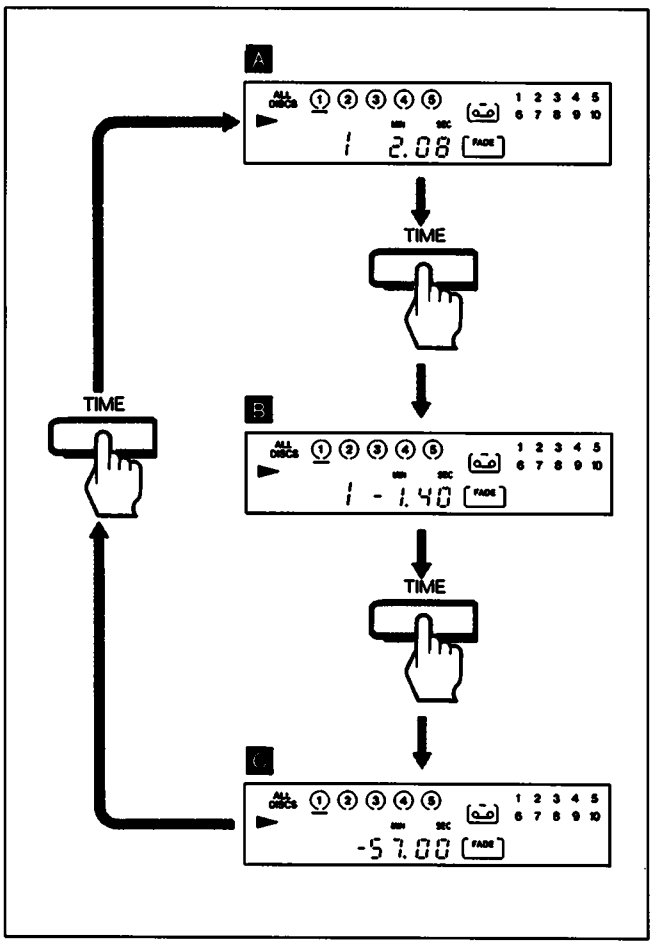
What is this indication?

This indication appears when there are no disc at all in the tray.


Shows that the tray is occupied
Tray No.
Music calendar
Appears under the tray number where the disc is clamped currently
Total playing time
Total number of selections in the disc

Information Display

If you press ⏏ or the compartment itself to close the compartment, the total number of selections and the total playing time of the disc to be played are displayed for a few seconds.
If you press TIME during stop, you can choose either combination for the display data.

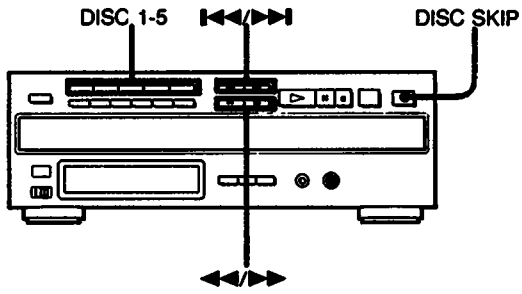


Each time you press TIME during play, the display changes to give you the following information.

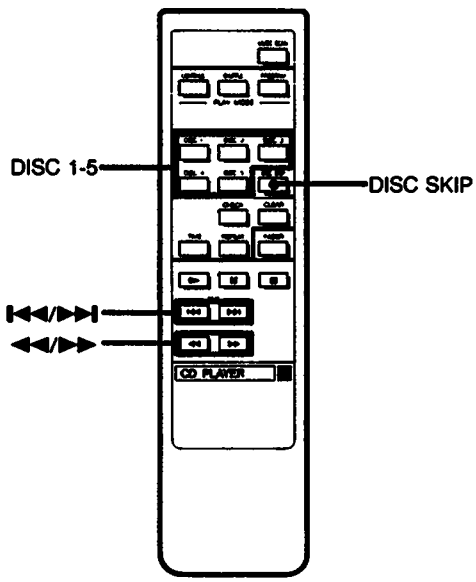
- **A** Elapsed time in a selection (automatically displayed when play begins)
- **B** Remaining time in the selection
  "–.–" indication will appear in the display window instead of the actual time, if a selection numbered 21 or higher is selected.
- **C** Remaining time of the disc

Notes

- Total remaining time is only available during continuous mode. It will not be displayed by pressing the TIME button during program or shuffle mode.
- Total remaining time will be displayed, if time fade is set during program or shuffle mode.



CDP-C315M only



Selecting a Desired Disc

By using the DISC 1 to 5 buttons or the DISC SKIP button during play, you can locate the beginning of any disc.

To select a particular disc	Press the corresponding DISC 1 to 5 button.
To move to the disc tray next to the current one	Press DISC SKIP button.

Locating a Particular Selection

Locating a selection in sequence (Automatic Music Sensor)
You can locate the beginning of a selection on the disc being played.

To locate the beginning of the selection being played	Press I◀◀ once.
To locate the beginning of the next selection	Press ▶▶I once.

Continue to press until the selection you want is located.

Locating a Particular Point in a Selection

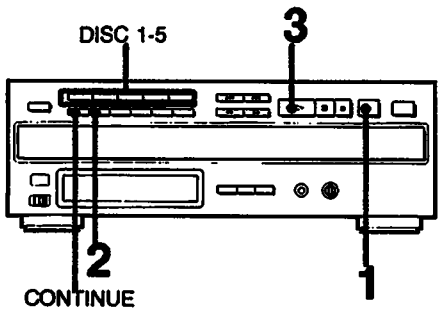
Locating a point in sequence (Manual Search)
You can locate a particular point in a selection during play by monitoring the high-speed sound.

To go back at high speed	Keep ◀◀ pressed.
To go ahead at high speed	Keep ▶▶ pressed.

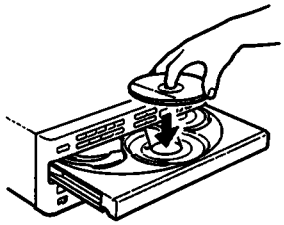
Release the button when you reach the point in the selection you want.

To locate at higher speed
Press ◀◀ or ▶▶ in the pause mode. Search speed will increase three times, but there will be no sound. Find the desired point by watching the number in the display.

Playing in a Random Order – Shuffle Play

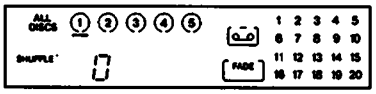


1

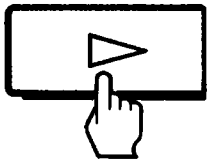


2

Choose whether to play one disc (1 DISC) or all discs (ALL DISCS.)



3



You can have the selections (up to 99) played in a random order. The unit will play all the discs or just one disc you desire.
Once a selection is played, it will not be played again until the random order is completed.

To stop playing
Press ■.

To cancel shuffle play
Press CONTINUE and return to the continuous playing mode.

To change from program or continuous play to shuffle play
Press SHUFFLE during program or continuous play. The program mode will be cleared and shuffle play will begin from the current selection being played.

What is this indication?
This indication appears while the player is "shuffling" the selections.

To Play only the Desired Discs in a Random Order – Select Shuffle Play

Select the desired discs during stop mode (ALL DISCS mode).

To select the desired discs
Press the DISC 1-5 buttons.
A circle will appear around the selected disc number. To choose another disc, press the desired disc number button.

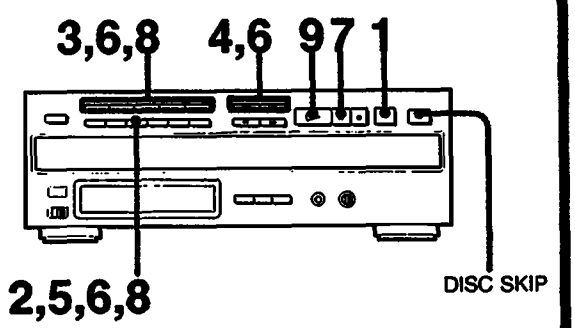
To delete a disc which you have selected, press DISC 1-5 button for that disc. A circle will disappear around the selected disc number.

To put back all discs which you have deleted, press ■ during stop mode.

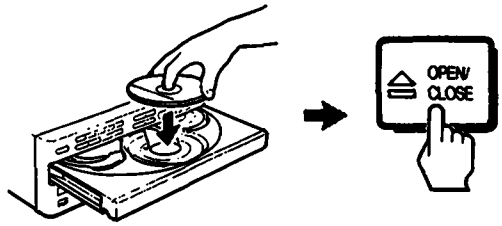
Note
During shuffle play in ALL DISCS mode, DISC 1-5, MUSIC SCAN, EDIT/TIME FADE, and PEAK SEARCH buttons do not function.

Playing in a Desired Order – Program Play

You can make a program by designating up to 32 steps in the order you want them to be played. The unit will play the disc according to your program.



1



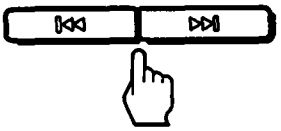
2

"PROGRAM" is displayed.

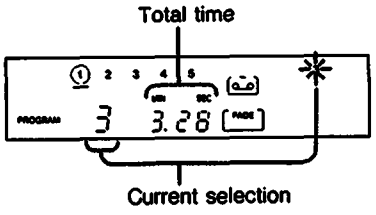
3 Choose the disc.

If you program a whole disc, go on to step 6.

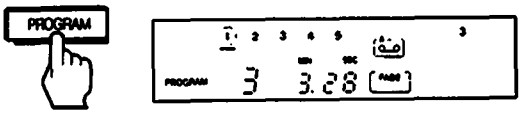
4 Choose the selection.



Press ⏮/⏭ repeatedly to choose an appropriate selection.



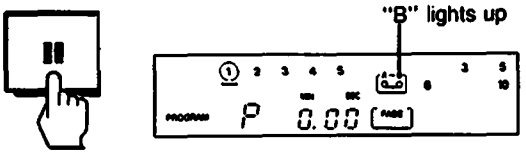
5 A satisfactory selection has been chosen.



The selection is stored, and the flashing numbers in the window light up.

6 To program additional selections from the same disc, repeat steps 4, and 5.
To program additional selections from another disc, repeat steps 3, 4, and 5.

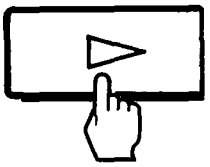
7 If you program the selections for side B, insert a pause.



A pause is counted as one programming step.

8 Program the selections for side B.
Repeat steps 3 to 6 (or 4 to 6).

9



The selections for side A will start playing.

You can make a program for both sides (side A and side B) of the tape at one time.
* You can program one selection or one disc in a step.

To program a whole disc

- Using the DISC 1 to 5 buttons
  After steps 1 and 2:
  1 Press the DISC 1 to 5 buttons to select the disc.
  2 Go on to step 6.
- Using the DISC SKIP button
  After steps 1 and 2:
  1 Press DISC SKIP button. "AL" is displayed in the window.
  2 Press PROGRAM.
  3 Go on to step 6.

The whole disc is programmed as one step.

To program while observing the disc labels
You can program the selections with the disc compartment open.

To play the selections for side B
When the selections for side A have been played, the unit will pause. ("B" lights up.)
Set the tape to the beginning of side B, then press ▶ or ▮▮.
The selections for side B will start playing.

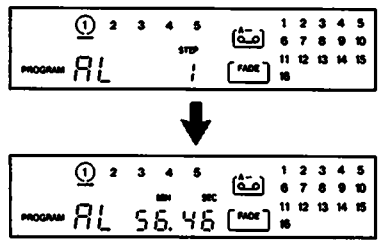
To stop program play
Press ■. The last selection number programmed will be displayed.
To resume play, press ▶. Play begins from the beginning of the program.
You can play the same program repeatedly as long as you do not cancel program play or erase the program.

To cancel program play
Press CONTINUE and return to the continuous playing mode. The program will be erased.

Skipping to the next selection programmed
Press ▶▶▮ during play.

Going back to the beginning of the selection being played
Press ▮◀◀ during play.

Display on step 3 (procedure step display)



To erase all the selections programmed
Press ■ to erase.

The program will be erased in the following situations

- ⏏ is pressed during program play.
- Power is turned off.

To check the step of programmed selections
Press TIME during stop mode.
The number of programmed selections will be displayed for few seconds in the window.

To check the remaining time
Press TIME once to see the remaining time of the selection being played; twice to return to the initial display.
The total remaining time cannot be displayed.
If you have programmed a selection number over 20, numeric of STEP is displayed instead of the remaining time.

Notes

- The playing time for selection numbers higher than 20 will not be added into the total playing time.
- When selections have been programmed for sides A and B, the total playing time displayed during stop mode will show the selections programmed for side B and the total playing time for side B.

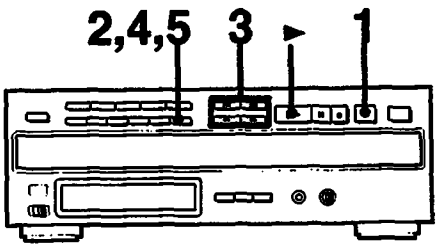
For CDP-C315M only

To check your program
Press CHECK. The first selection in the program will be displayed.
Each time you press CHECK, the next selection in the program will be displayed. When CHECK is pressed after the last selection, "End" appears and then the display returns to the initial display.

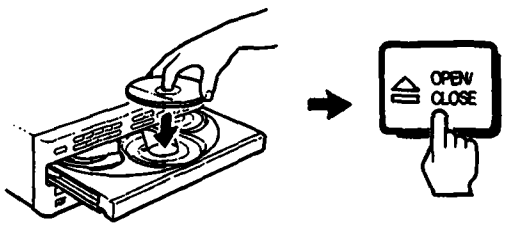
To erase the last selection, press CLEAR.
Each time you press CLEAR, the last selection in the program will be erased.

To delete a selection, press CHECK repeatedly until the undesired selection is displayed. Then press CLEAR.

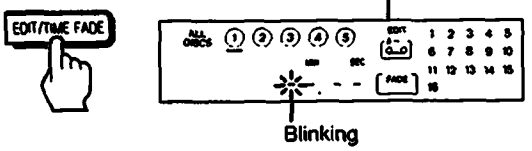
Designating the Total Playing Time – Time Edit



1

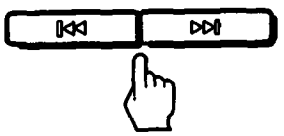


2

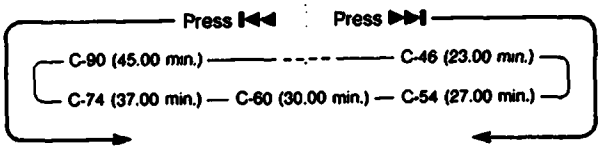


3 Designate the length of one side of your tape.

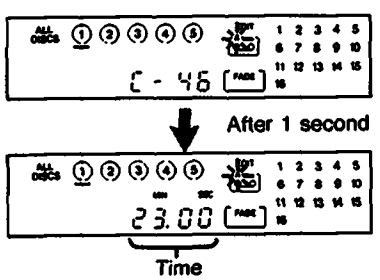
- To set the minute



Each time you press ⏮/⏭, the time changes in the following way.

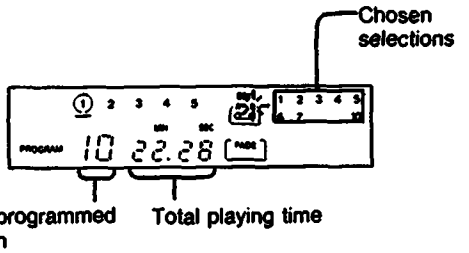


- To set the seconds, press ◀◀/▶▶.
  The time increases or decreases by 10 seconds.



4

The program for side A is completed.
If "LINK" blinks, see "To add selection(s)".

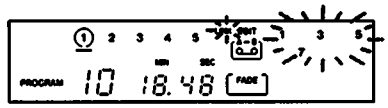


5 Press EDIT/TIME FADE once more, to make a program for the other side of your tape. If "LINK" blinks, see "To add selection(s)".

Note
Total playing time can be set up to 59 minutes 50 seconds.

You can designate a time and the unit will make 2 different programs of selections each fitting within that period. Use this function, by designating the length of your tape, for editing both sides of a tape.

To add selection(s) — LINK —
After all selections on the disc have been programmed, if there is selection(s) within the remaining time, "LINK" and the selection numbers will blink.



To add selection, press the EDIT/TIME FADE again. A program will be made automatically to fit the playing time as close as possible to the remaining time.
If the remaining time can contain other selection(s), "LINK" and the selection number keep blinking. When "LINK" blinks, if the disc is changed by another disc, the new selection number(s) on the new disc that fit in the remaining time will blink.
"EDIT" disappears when the playing time becomes equal to the designated time. Whether "LINK" is blinking or not, you can change the disc by another disc and choose selection(s) to fit the remaining time.
To disappear "EDIT" in the window, press ■ button.

To play the program
Press ►.
The selections for side A will be played and then the unit will pause. "B" lights up in the tape side indicator. Set the tape to the beginning of side B, then press ► or ❚❚.
The selections for side B will be played.

Note
Playback can be performed when "EDIT" is displayed.

To stop playing
Press ■.
You can play the same program repeatedly as long as you do not cancel time edit or erase the program.

To cancel time edit
Press CONTINUE and return to the continuous playing mode.
The program will be erased.

To erase the entire program
Press ■ once during stop; twice during play.
The program is also erased, when you turn off the unit.

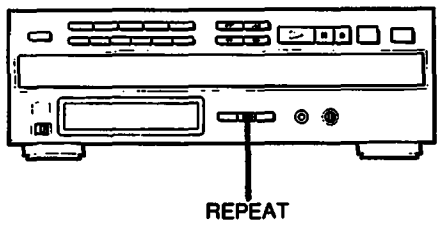
To include desired selections in the program
1 Make your own program of the desired selections. See page 12 for instructions.
2 Follow the procedure as shown on the preceding page. Just designate the length of your tape; you need not subtract the length of your program. The unit will place your selections at the beginning of its program and add other selections to fit the remaining time.

To check the program
See page 13.

To designate a different time for each side
Execute steps 1 to 4 and press ❚❚. Then repeat steps 2 and 4. Do not execute step 5.

If your disc has more than 20 selections
Selections over 20 cannot be programmed with the time edit function; program desired selections before using the time edit function. See page 12 for details.

Playing Repeatedly – Repeat Play



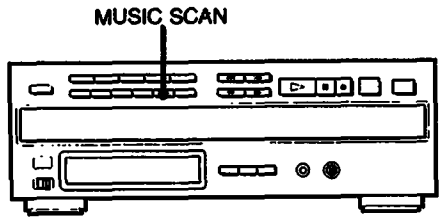
Press before or during play.

"REPEAT" appears. The unit repeats the current playing mode.
To repeat a single selection, press REPEAT again during repeat play of the continuous playing mode. "REPEAT 1" appears.

You can repeat a single disc or all the discs.
You can repeat a single selection during continuous play.
You can use repeat play in any play mode.

To cancel repeat play
Press REPEAT again. "REPEAT" disappears.
To cancel repeat play of the continuous play mode, press REPEAT twice. "REPEAT" disappears.

Scanning Selections – Music Scan



Press during stop.

► blinks, and each selection plays for approximately 10 seconds and fades out, scanning play starts the next disc or selection.

You can check the selections by scanning the beginning of each selection on the disc. When "ALL DISCS" is selected in continue mode, the first selection of each disc will be scanned.
You can use this function in any play mode.

To stop music scan play
Press ■.

Starting play at the selection being played during music scan
Press ►.

Note
Programmed pauses in program mode will be disregarded during music scan play. If you press the ◄◄/►► button, music scan will be canceled.

Tips on Editing Tapes

The following functions are convenient for editing your own tapes.

Fading in/Fading out

You can have the play fade in and fade out between 2-10 seconds.
When no time is specified, the play will fade in and fade out for 5 seconds.

To set the fade time

1 Press ■.
2 Press FADER.
3 Press ◀◀/▶▶ to select fade time between 2-10 seconds during "FADE" blinking.

To end the play fading out

Press FADER when you want to start fading out.
[FADE] flashes in the window, and play fades out and unit enters the pause mode.

To restart the play fading in

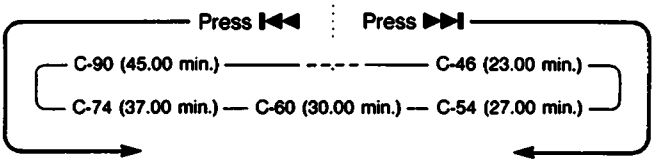
Press FADER in the pause mode.
[FADE] flashes in the window, and play fades in.

Fading out at the Desired Time – Time Fade

You can have the play fade out at the end by designating the play duration. Once time fade is set, it functions twice for editing both sides of a tape. You can change discs without canceling this function. The fade time is preset to 5 seconds, but you can change it between 2-10 seconds. (See "Fading in/Fading out").

To set time fade

1 Press EDIT/TIME FADE twice during stop.
[TIME FADE] is displayed in the window.
2 Set the desired play duration, using ⏮◀◀/▶▶⏭ and ◀◀/▶▶ buttons.
• To set the minute
Each time you press ⏮◀◀/▶▶⏭, the display changes in the following way.



• To set the second
Each time you press ◀◀/▶▶, the seconds will be set in 10 second shifts.

Note

The desired play duration can be set up to 59 minutes 50 seconds.

3 To start play, press ▶.
After the designated time, play fades out and pauses. Tape side B lights up. Press ▶ or ❚❚ to resume playing for the other side of the tape. If you press FADER, fade in will start. When the play fades out for the second time, the unit pauses and the time fade function is canceled.

When playback ends in the duration of time fade

Time fade function will be kept on. Change the disc and start playback automatically, when the total playing time is within some seconds before the designated time, the player fades out.

To cancel time fade

Time fade will be canceled when
– EDIT/TIME FADE is pressed once again.
– ◀◀/▶▶ (manual search) is pressed during play.

To display the time remaining until the time set

Press TIME twice.

If the PEAK SEARCH is pressed after setting time fade, time fade is released but peak search is kept active.

Locating the Loudest Portion of the Disc – Peak Search

The unit will scan a disc from beginning to end and determine the loudest portion (peak level) of the disc, and then play that portion repeatedly. This function will make it easier for you to adjust to the optimum level when recording on tape. You can use this function in the continuous, shuffle and program play modes.

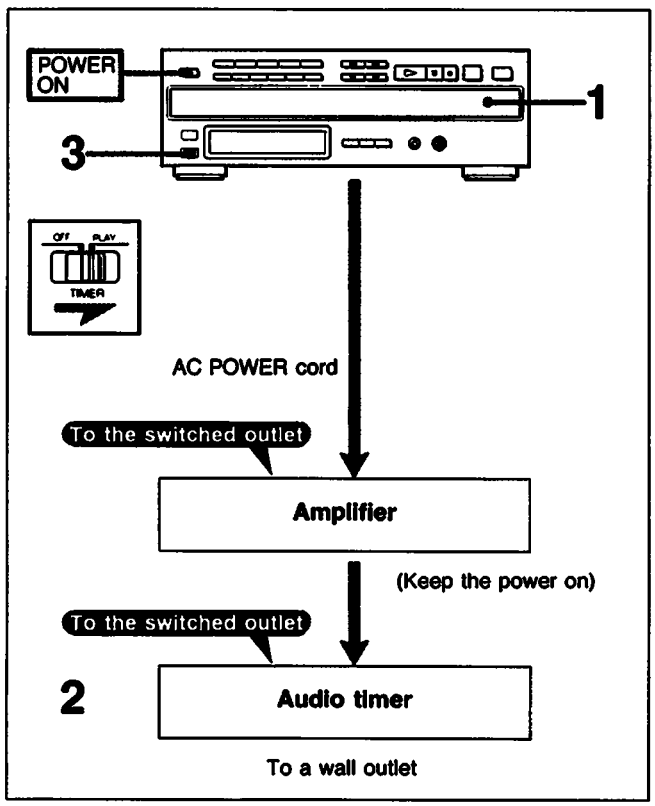
To set peak search
Press PEAK SEARCH in the stop mode. "PEAK" flashes in the window. The entire tracks in a disc or program will be searched automatically. "PEAK" lights up and the loudest portion will be played repeatedly for 4 seconds. Adjust the recording level on your tape deck according to the peak level.

To start play immediately
Press ►.

To stop peak search
Press ■.
Press ❚❚ to pause at the first selection.

Note on peak search function
The unit determines the loudest portion (peak level) of a disc by searching it at fixed intervals. As a result, the portion searched may differ from the actual peak level. In addition, this function may determine different portions as the peak level for the same disc. However, the difference between the portion searched and the actual peak level is insignificant and will not present any problem in adjusting the recording level.

Timer Activated Playing



By connecting a commercially available timer, disc play can be started at any desired time.
This function can be operated in the continuous play mode.

1 Insert a disc in the compartment.

2 Set the timer.

3 Set TIMER to PLAY.

Keep the POWER switch depressed on the CD player
When the timer is set, the power of the player will be cut off. At the time set, the CD player will be switched on and play will start.

When the timer-activated play ends
Be sure to set TIMER to OFF. If the TIMER switch is left at PLAY, the unit will automatically start playing the next time the power is turned on.

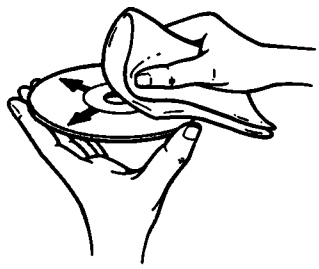
Maintenance

Cleaning the Cabinet

Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad scouring powder or solvent such as alcohol or benzine.

Cleaning Discs

Before playing, clean the disc with the cleaning cloth. Wipe the disc from the center out.



Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for analog discs.

After playing, store the disc in its case.

Specifications

System	Compact disc digital audio system
Laser	Semiconductor laser (λ=780 nm) Emission duration: continuous
Laser output	Max. 44.6 μW* * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	2 Hz — 20 kHz ($\pm$0.5 dB)
Signal to noise ratio	More than 100 dB
Dynamic range	More than 98 dB
Harmonic distortion	Less than 0.005% (1 kHz)
Channel separation	More than 100 dB (1 kHz)
Wow and flutter	Below measurable limit
Outputs	LINE OUT (phono jacks) Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms PHONES (stereo phone jack) (CDP-C315M only) Output level 0 — 10 mW (variable) (at 32 ohms)

General

Power requirements	Model for USA (CDP-C312M only) 120 V AC, 60Hz Model for Australia 240 V AC, 50/60 Hz
Power consumption	12 W
Dimensions	Approx. 355 × 120 × 385 mm (w/h/d) (14 × 4¾ × 15¼ inches) including projecting parts and controls
Weight	Approx. 4.9 kg (10 lbs 13 oz), net

Remote commander RM-D315

Remote control system	Infrared control
Power requirements	3 V DC with two batteries size AA (IEC designation R6)

Supplied accessories

Audio signal connecting cord
(phono plug × 2 ↔ phono plug × 2) (1)
Remote commander (1) (CDP-C315M only)
R6 (size AA) batteries (2) (CDP-C315M only)
Operating Manual (1)

Design and specifications subject to change without notice.

Troubleshooting Guide

The following checks will assist in the correction of most problems which you may encounter with your unit. Should any problem persist after you have made these checks, consult your nearest Sony service facility. Before going through the check list below, first refer back to the connection an operating procedures.

Trouble	Causes	Remedy
No audio from one or both channels	Incorrect operation of the amplifier	Operate correctly.
	Loose connection	Connect the cords firmly.
Play does not begin.	No disc in the disc compartment	Put disc(s) in the compartment.
	The player is in the pause mode.	Press ▶ or ▮▮ to release pause.
	Moisture condensation	Leave the player turned on for about an hour.
	The disc is set upside down.	Set the disc with the label side up.
	The disc is tilted.	Set the disc correctly.
	The disc is extremely dirty.	Clean the disc.
Remote commander does not operate the unit. (For CDP-C315M only)	The batteries are exhausted.	Replace both batteries.
	The remote commander is not pointed at the remote control sensor.	Point the remote commander to the sensor.
	There is an obstacle between the remote commander and the unit.	Remove the obstacle.
	The remote commander is too far from the unit.	Move closer.
Any operation is not possible.	The internal control program may not run.	Turn off the power and turn it on again.

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